

## Claims:

1. A vehicle controller of a vehicle power transmission device including an engine, a clutch and a transmission,  
5 wherein:

said clutch is equipped with a clutch controller which disconnects said clutch at the time of gear change of said transmission;

said engine is equipped with an engine controller which  
10 controls the engine based on the amount the accelerator pedal is depressed as a basic parameter, wherein at the time of gear-change, said engine controller, in response to a gear-change instruction signal, performs a gear-change engine control for controlling said engine independently of said  
15 amount the accelerator pedal is depressed; and

in said gear-change engine control at the time of gear-change of shifting up, said engine controller executes a control for decreasing said engine output for a predetermined period of time prior to disconnecting said  
20 clutch, and the target value for decreasing the output depends upon the vehicle operating conditions of when said gear-change instruction signal is output.

2. The vehicle controller of a vehicle power transmission  
25 device according to claim 1, wherein said target value for decreasing the output is set depending upon the gear position of when the gear-change instruction signal is output while the vehicle is in operation, and the target value for decreasing the output is set to become smaller as a higher gear is used.

3. The vehicle controller of a vehicle power transmission  
30 device according to claim 1 or 2, wherein said target value for decreasing the output is set as a target value for decreasing the rotational speed.

4. The vehicle controller of a vehicle power transmission device according to claim 3, wherein said target value for decreasing the rotational speed is set depending upon the rotational speed of said engine of when said gear-change instruction signal is output.

5. The vehicle controller of a vehicle power transmission device according to claim 1 or 2, wherein said target value for decreasing the output is set depending upon the amount of fuel supplied to said engine of when said gear-change instruction signal is output.

6. The vehicle controller of a vehicle power transmission device according to claim 1, wherein said vehicle controller is provided with means which determines whether the control be executed for decreasing the engine output prior to disconnecting said clutch depending upon the vehicle operating conditions of when said gear-change instruction signal is output.

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7. The vehicle controller of a vehicle power transmission device according to claim 6, wherein the vehicle operating conditions of when said gear-change instruction signal is output are so set as will not to execute the control for decreasing the engine output prior to disconnecting said clutch when a difference in the rotational speed of the transmission input shaft before and after the change of speed is not larger than a predetermined difference in the rotational speed.

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